

What is claimed is;

1. A medical checkup network system comprising:

5 a patient terminal for measuring a predetermined biodata of each patient such as a blood pressure or a body temperature;

a center server for storing the biodata measured by the patient terminal; and

10 a doctor terminal through which medical staff can view the biodata stored in the center server to conduct a diagnosis,

wherein the patient terminal, the doctor terminal, and the center server are connected with each other over a communication network.

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2. A medical checkup network system comprising:

a doctor terminal for entering a predetermined medical support data such as an advice data or a schedule data to a patient;

20 a center server for storing the medical support data entered through the doctor terminal; and

a patient terminal for displaying the medical support data received from the center server,

25 wherein the patient terminal, the doctor terminal, and the center server are connected with each other over a

communication network.

3. The medical checkup network system according to claim 1, wherein the center server has an authorizing section for providing the patient, the patient terminal, the medical staff or the doctor terminal registered in the center server with access right to enter a data or access the data stored in the center server.

10 4. The medical checkup network system according to claim 1, wherein the center server has an administrator terminal function for registering the user of the system and inputting the various medical data in the center server.

15 5. The medical checkup network system according to claim 1, wherein the center server is arranged for storing at least one software content to the patient terminal, the doctor terminal or the administrator terminal, and each of the terminals downloads the software content from the center server to use.

20 6. The medical checkup network system according to claim 5, wherein the software content of the patient terminal includes a version data indicative of a version of the software content, and

the patient terminal compares the version data of the software content in the terminal with a latest version data managed in the center server upon communicating with the center server, and when the version data is older than the update version data, systematically downloads the latest version of the software content from the center server for version up.

7. The medical checkup network system according to claim 2, wherein

the center server stores the advice data directed to a patient entered at the doctor terminal,

the patient terminal has a section for detecting the reception of the advice data, and

the doctor terminal has a section for communicating with the center server and displaying whether or not the advice data is received by the patient terminal.

8. The medical checkup network system according to claim 4, wherein the administrator terminal registers, to the center server, an access right for the patient, the patient terminal, the doctor or the doctor terminal.

9. The medical checkup network system according to claim 4, wherein the administrator terminal enters patient

terminal data which is data related to the patient terminal to be used by the patient.

10. The medical checkup network system according to  
5 claim 9, wherein the administrator terminal is arranged for  
executing at least one of procedures comprising: a  
procedure of entering identification number which  
identifies the patient terminal; a procedure of entering a  
10 name of a patient corresponding to the identification  
number; a procedure of entering identification code  
corresponding to the patient name; a procedure of entering  
at least one measurement item corresponding to the patient  
name; and a procedure of entering at least one name of  
15 instrument which senses biodata corresponding to the  
measurement item.

11. The medical checkup network system according to  
claim 1, wherein  
the doctor terminal has a biodata threshold  
20 setting section for setting a threshold of the biodata for  
each patient, and

the center server has an alert section, the alert  
section receiving the threshold determined by the doctor  
terminal and providing the doctor terminal with an alert  
25 when the level of the biodata of the patient measured by

the patient terminal exceeds the threshold.

12. The medical checkup network system according to claim 1, wherein

5 the doctor terminal has a sensitivity setting section for determining a level of sensitivity for receiving at the patient terminal a signal output from a sensor,

10 the center server has a section for receiving and storing the sensitivity level determined at the doctor terminal, and

15 the patient terminal has a section for communicating with the center server to receive the sensitivity level and modifying the sensitivity of the sensor based on the received sensitivity level.

13. The medical checkup network system according to claim 1, wherein the patient terminal has an initial connection setting section for communicating with the  
20 center server to execute a predetermined process upon being energized, and the initial connection setting section is arranged for performing at least one of automatically updating the software content, receiving the medical support data including the schedule data and the advice  
25 data, and transmitting measurement data which is not

transferred.

14. The medical checkup network system according to claim 1, wherein

5 the patient terminal has a communicating section for measuring at least one kind of biodata to transmit the measured biodata to the center server,

the center server has a database for storing the biodata received from the patient terminal, and

10 the doctor terminal has a biodata displaying section for communicating with the center server and displaying the biodata stored in the database.

15 15. The medical checkup network system according to claim 14, wherein the patient terminal includes a measurement interface connected with at least one sensor for measuring the biodata, a biodata memory for storing the biodata measured by the sensor and received through the measurement interface, a communicating section for  
20 transmitting the biodata stored in the biodata memory and receiving the patient terminal data from the center server at the time of installation in the patient's home, and an instrument data memory for storing the identification number of each sensor to discriminate the sensor  
25 instruments from each other.

16. The medical checkup network system according to claim 15, wherein the patient terminal performs a procedure of connecting to the center server over the communication network at the time of installation, a procedure of receiving over the communication network from the center server patient terminal data which includes name of the patient corresponding to an identification number of the patient terminal, identification code corresponding to the patient name, measurement item corresponding to the patient name, instrument name of the sensor corresponding to the measurement item and control data of the sensor, and a procedure of storing the patient terminal data.

15 17. The medical checkup network system according to claim 14, wherein the patient terminal includes a measurement interface connected with at least one sensor for measuring the biodata, a biodata memory for storing the biodata measured by the sensor and received through the measurement interface, a communicating section for transmitting the biodata stored in the biodata memory to the center server, an instrument data memory for storing identification number to discriminate the sensor instruments from each other, and a recording medium interface for receiving the biodata from a detachable

recording medium at the time of installation in the patient's home.

18. The medical checkup network system according to  
5 claim 17, wherein the patient terminal performs a procedure  
of receiving, at the time of installation in the patient's  
home, from a detachable recording medium, patient terminal  
data including at least one of name of the patient  
10 corresponding to identification number of the patient  
terminal, identification code corresponding to the patient  
name, measurement item corresponding to the patient name,  
instrument name of the health sensor corresponding to the  
measurement item, and control data of the sensor, and a  
procedure of storing the patient terminal data.

15 19. The medical checkup network system according to  
claim 2, comprising

the doctor terminal for receiving and monitoring  
a schedule data of the health care action for the patient,

20 the center server for storing the schedule data  
received from at least one doctor terminal, and

the patient terminal for communicating with the  
center server to provide the patient with the schedule data  
received from the center server.



20. The medical checkup network system according to claim 19, wherein the patient terminal has at least one of a displaying section for displaying the patient name, the setting time and the medical activities in the form of messages and images upon receiving the schedule data, and a sound generator for releasing a voice sound representing contents of the patient name, the setting time and the medical activities.

21. The medical checkup network system according to claim 19, wherein the schedule data includes at least one of pairs including a pair of the time and detail of dosage, a pair of the time of visit on the patient and name of a visitor or medical staff, a pair of the time of reservation and detail of the medical treatment at the medical facility, and a pair of the time and item of measurement of the biodata.

22. The medical checkup network system according to claim 19, wherein

the center server has a homepage builder for receiving the schedule data from the doctor terminal and converting the schedule data into data in an HTML or XML format, and a WEB server for storing the data related to the homepage, and

the patient terminal has a browser function for communicating with the center server, receiving the schedule data in the HTML or XML format, and displaying the schedule data.

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23. The medical checkup network system according to claim 19, wherein

the center server has a mail transmitting section for storing the schedule data received from at least one doctor terminal and dispatching as an e-mail the medical activities to be done by the patient at the timing determined by the schedule data, and

the patient terminal has a receiving section for receiving the e-mail from the center server, and a displaying section for displaying details of the e-mail.

24. The medical checkup network system according to claim 19, wherein

the patient terminal has a response entering section for entering the result of the medical activities indicating whether or not the activities are performed according to the schedule data,

the center server has a database for communicating with the patient terminal, receiving the result of the medical activities from the patient terminal

to store the result of activities, and

the doctor terminal has a section for communicating with the center server and receiving the result of the medical activities stored in the database to display the result.

25. The medical checkup network system according to claim 24, wherein

the response entering section in the patient terminal is implemented in an HTML or XML format over a browser, and

the center server has a WEB server for communicating with the browser in the patient terminal to receive the result of the medical activities, and a database for storing the result of the medical activities received at the WEB server.

26. The medical checkup network system according to claim 24, wherein

the patient terminal has a mail transmitting section for converting the result of the medical activities into a text form data to transmit the converted data as an e-mail, and

the center server has an e-mail receiving section for receiving the e-mail from the patient terminal, an

analyzing section for extracting a text data from the e-mail to check the result of the medical activities, and a database for storing the result of the medical activities.

5     27.         The medical checkup network system according to claim 23, wherein the patient terminal comprises one of a mobile phone, a pager, and a PDA which can transmit and receive the e-mails.

10    28.         The medical checkup network system according to claim 2, wherein the center server has an authorizing section for providing the patient, the patient terminal, the medical staff or the doctor terminal registered in the center server with access right to enter a data or access  
15    the data stored in the center server.

29.         The medical checkup network system according to claim 2, wherein the center server has an administrator terminal function for registering the user of the system  
20    and inputting the various medical data in the center server.

30.         The medical checkup network system according to claim 2, wherein the center server is arranged for storing at least one software content to the patient terminal, the  
25    doctor terminal or the administrator terminal, and each of

the terminals downloads the software content from the center server to use.

31. The medical checkup network system according to  
5 claim 30, wherein the software content of the patient terminal includes a version data indicative of a version of the software content, and

the patient terminal compares the version data of the software content in the terminal with a latest version data managed in the center server upon communicating with  
10 the center server, and when the version data is older than the update version data, systematically downloads the latest version of the software content from the center server for version up.

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32. The medical checkup network system according to claim 29, wherein the administrator terminal registers, to the center server, an access right for the patient, the patient terminal, the doctor or the doctor terminal.

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33. The medical checkup network system according to claim 29, wherein the administrator terminal enters patient terminal data which is data related to the patient terminal to be used by the patient.

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34. The medical checkup network system according to claim 33, wherein the administrator terminal is arranged for executing at least one of procedures comprising: a procedure of entering identification number which identifies the patient terminal; a procedure of entering a name of a patient corresponding to the identification number; a procedure of entering identification code corresponding to the patient name; a procedure of entering at least one measurement item corresponding to the patient name; and a procedure of entering at least one name of instrument which senses biodata corresponding to the measurement item.

35. The medical checkup network system according to claim 2, wherein the patient terminal has an initial connection setting section for communicating with the center server to execute a predetermined process upon being energized, and the initial connection setting section is arranged for performing at least one of automatically updating the software content, receiving the medical support data including the schedule data and the advice data, and transmitting measurement data which is not transferred.

36. The medical checkup network system according to

claim 26, wherein the patient terminal comprises one of a mobile phone, a pager, and a PDA which can transmit and receive the e-mails.